Organic and Biomolecular Chemistry 2016 vol.14 N32, pages 7610-7621

Chemically synthesized glycoconjugates on proteins: Effects of multivalency and glycoform: In vivo

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Abstract

© The Royal Society of Chemistry 2016.The biodistributions and in vivo kinetics of chemically prepared glycoconjugates on proteins are reviewed. Chemical methods can be used to conjugate various mono- and oligosaccharides onto a protein surface. The kinetics and organ-specific accumulation profiles of these glycoconjugates, which are introduced through intravenous injections, have been analyzed using conventional dissection studies as well as non-invasive methods such as single photon emission computed tomography (SPECT), positron emission tomography (PET), and fluorescence imaging. The results suggest that glycan-dependent protein distribution kinetics may be useful for pharmacological and diagnostic applications.

http://dx.doi.org/10.1039/c6ob00788k